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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,324	08/05/2003	Viktor V. Jarikov	84501ARLO 7849		
7590 05/03/2005			EXAMINER		
Thomas H. Close			GARRETT, DAWN L		
Patent Legal Sta					
Eastman Kodak Company			ART UNIT	PAPER NUMBER	
343 State Street			1774		
Rochester, NY 14650-2201			DATE MAILED: 05/03/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	•	Applicant(s)			
0.00		10/634,324		JARIKOV, VIKTOR V.			
	Office Action Summary	Examiner		Art Unit			
	·	Dawn Garrett		1774			
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cove	r sheet with the co	rrespondence ac	idress		
THE - Exte after - If the - If NO - Failt Any	IORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a report of the provision of th	I. 1.136(a). In no event, how eply within the statutory mi d will apply and will expire ute, cause the application t	ever, may a reply be time nimum of thirty (30) days SIX (6) MONTHS from the to become ABANDONED	oly filed will be considered time the mailing date of this of (35 U.S.C. § 133).			
Status							
1)[🖂	Responsive to communication(s) filed on 14	April 2005					
2a)□		nis action is non-fin	al.				
3)	,—						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1,6,11,12,14,16-18,49,50,60,61,82	48,51-59,63-81 an and 110 is/are reje	ected.	ithdrawn from co	onsideration.		
Applicat	tion Papers						
10)⊠	The specification is objected to by the Exami The drawing(s) filed on <u>10 December 2004</u> is Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the	s/are: a)⊠ acceptone drawing(s) be held ection is required if the	l in abeyance. See ne drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).		
Priority	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice 3) Infor	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date	4)	Paper No(s)/Mail Dail Notice of Informal Pa	e	O-152)		

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## **DETAILED ACTION**

1. This Office action is responsive to applicant's response to the election requirement.

Applicant submitted an amendment to the claims in response to the election of species requirement. From the amendment, the elected species are considered to be the following:

First component – the benzenoid hydrocarbon of claim 82

Second component – the oxinoid compound AlQ<sub>3</sub>

The at least one dopant – the DCM moiety dopant DCJTB

Applicant has withdrawn claims 2-10, 13, 15, 17-48, 51-59, 62-81, and 83-109 as non-elected. The following claims are currently under consideration 1, 6, 11, 12, 14, 16-18, 49, 50, 60, 61, 82, and 110. Since applicant was required to list all claims reading on the elected species in the election requirement, the claims marked as withdrawn by applicant are assumed not to read upon the elected species according to applicant.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 6, 11, 12, 14, 16-18, 49, 50, 60, 61, 82, and 110 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vong et al. (US 2004/0021415 A1) in view of Tang et al. (US 5,294,870). Vong et al. teach organic light emitting devices that may have a single layer luminescent region comprising tris(8-hydroxyquinolate) aluminum (AlQ<sub>3</sub>) (see par. 33). The luminescent region may further comprise in an amount of 0.01 weight percent to about 25 weight

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percent fused ring fluorescent dyes such as pyrene and the like (see par. 36) and fluorescent dyes such as DCJTB (see par. 37). Vong et al. fails to exemplify a device comprising a luminescent region comprising AlQ<sub>3</sub> doped with both a pyrene derivative and DCJTB; however, it would have been obvious to one of ordinary skill in the art at the time of the invention to have formed a layer with AlQ<sub>3</sub>, pyrene derivative and DCJTB, because Vong et al. teaches all the components may be used in the luminescent region. Pyrene derivatives and DCJTB are both taught as useful dopants and it is obvious to use a mixture of components taught as useful for the same purpose. Although Vong et al. generally teaches pyrene derivatives may be used in the device, Vong et al. fails to teach the specific pyrene derivative of claim 82. Tang et al. teaches in analogous art the compound according to claim 82, benzo[a]pyrene, as a fluorescent dye for an organic electroluminescent device (see col. 32, line 56 to col. 33, line 44). It would have been obvious to one of ordinary skill in the art at the time of the invention to have selected benzo[a]pyrene as a pyrene derivative fluorescent dye for the Vong et al. device, because Tang et al. clearly teaches benzo[a]pyrene is a fluorescent dye suitable for an organic device.

## Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dawn Garrett whose telephone number is (571)272-1523. The examiner can normally be reached Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached at (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dawn Jawett
Dawn Garrett
Primary Examiner
Art Unit 1774

D.G. April 28, 2005